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LICHENS OF MOUNT KATAHDIN, MAINE

R. HEBER HOWE, JR.

On July 18, 1911, I left Norcross, Maine, for the summit of Mt. Katahdin¹ (5,385 ft.). I crossed lakes Pemadumacook and Ambajejus to Tuck's camp on the steamer, and proceeded from there by canoe up the west branch of the Penobscot River to Sourdnahunk Falls, where I took the trail to Hunt's Camp on Kidney Pond, arriving there July 19. On July 21, I started for Katahdin, sleeping that night on its side, with the intention of spending the next day on the summit. After reaching the tableland, however, a terrific thunderstorm with cold rain and hail drove me to shelter beneath a boulder and I descended, after two hours of most disagreeable collecting, enveloped in dark clouds. I reached Hunt's Camp at dusk and returned to Norcross on July 24.

During this expedition I collected lichens all along the route and the specimens are now preserved in my herbarium. In the present list I am interpolating the species collected on Katahdin by the Rev. J. Blake and recorded in F. L. Harvey's Lichens of Maine.² I am grateful to Drs. Riddle, Hasse, and Scriba for valuable aid rendered in the determination of the *Stereocaulons*, crustose species, and *Cladonias* respectively.

SUB-ORDER: Cyclocarpineae

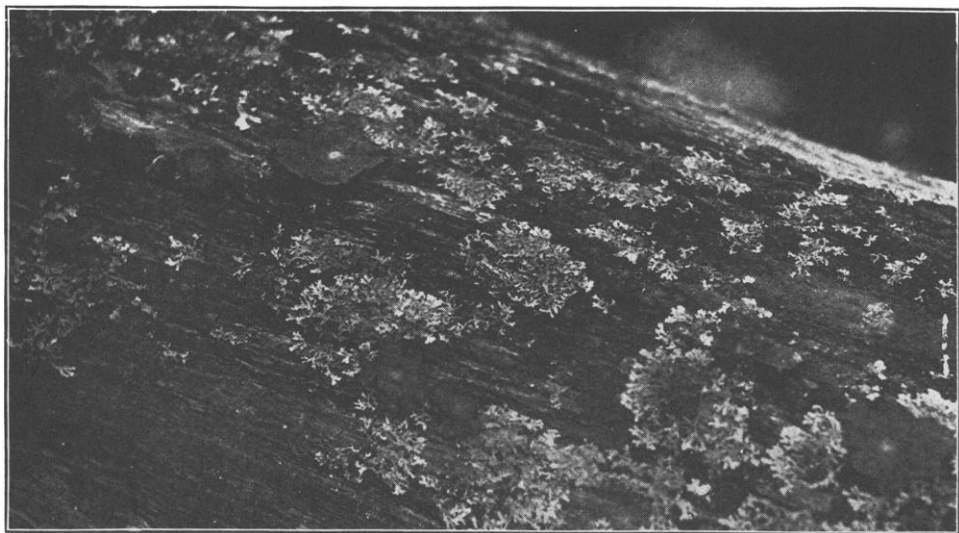
GROUP: Radiatae

FAMILY: Usneaceae.

1. *Usnea plicata* (L.) Web., Ambajejus Lake—sterile, on trees.
2. *Usnea florida* (L.) Web., Ambajejus Lake—fertile, on trees. Represents phase *U. subfusca* Strt.
3. *Usnea longissima* Ach., Ambajejus Lake—sterile, on trees. Represents phase *tenuis* Th. Fr.
4. *Usnea trichodea* Ach., West Branch—sterile, on dead trees.
5. *Letharia thamnodes* (Flot.) Hue, Katahdin (4,000 ft.), on trees—sterile; Ambajejus Lake, on trees—sterile; West Branch, on trees—sterile.
6. *Ramalina fastigiata* (Pers.) Ach. emend., Ambajejus Lake, on trees—fertile.
7. *Ramalina canaliculata* (Fr.) Herre, West Branch, on conifers—fertile. [*Cetraria islandica* (L.) Ach., Blake]

¹ Ktaadn.

² Harvey, F. L. Contribution to the Lichens of Maine—I. Bull. Torr. Bot. Club **21**: 389-393. 1894.



1. *UMBILICARIA PUSTULATA* var. *PAPULOSA* Tuck. growing on fallen tree.



30. *islandicus*

2. *LICHEN ISLANDICUS* Linn. (Slightly reduced). No. 959, *Flora Suecica*;
No. 30, *Species Plantarum*.

8. *Cetraria islandica* var. *crispa* Ach., Mt. Katahdin (5,000 ft.), on ground—sterile. I am reproducing here [Plate III, fig. 2] a photograph of the Linnaean type of *Lichen islandicus* which I made in London with the kind permission of Dr. B. Daydon Jackson. I have yet to see absolutely typical material from this country. Certainly the majority of records for the United States are referable to the variety *crispa* Ach.

9. *Cetraria islandica* var. *Delisaei* (Borr.) Schaer. = *C. hiascens* (Fr.) Th. Fr., Mt. Katahdin (5,000 ft.), on ground—sterile.

10. *Cetraria cucullata* (Bell.) Ach., Mt. Katahdin (5,000 ft.), on ground—sterile, also recorded by Blake.

11. *Cetraria nivalis* (L.) Ach., Mt. Katahdin (5,000 ft.), on ground—sterile, also recorded by Blake.

12. *Alectoria jubata* var. *implexa* (Hoffm.) Ach., West Branch, on conifers—sterile.

13. *Alectoria chalybeiformis* (L.) S. F. Gray. Kidney pond, on trees—sterile.

GROUP: *Stratosi-Radiatae*

FAMILY: *Cladoniaceae*.

14. *Baeomyces ericetorum* (L.) Wain, Kidney pond, old log—fertile.

15. *Sterocaulon paschale* (L.) Fr., West Branch and Mt. Katahdin (5,000 ft.), on ground and rocks—fertile, also recorded by Blake.

16. *Cladonia rangiferina* (L.) Web., West Branch, on ground—sterile.

17. *Cladonia alpestris* (L.) Rabh., Mt. Katahdin (4,000 ft.) on ground—sterile, also recorded by Blake.

[*Cladonia cornucopioides* (L.) Fr., recorded by Blake.]

18. *Cladonia coccifera* var. *stematina* Ach., Mt. Katahdin (3,000 ft.), on ledge—fertile.

19. *Cladonia cristatella* Tuck., Ambajesus Lake, on stump—fertile. With fragments of *Cladonia cornuta* (L.) Schaer.

[*Cladonia amaurocraea* (Flk.) Schaer., recorded by Blake.]

20. *Cladonia furcata* (Huds.) Schrad., Ambajesus Lake—fertile.

[*Cladonia furcata* var. *subulata* Flk. recorded by Blake.]

[*Cladonia squamosa* Hoffm., recorded by Blake.]

21. *Cladonia squamosa* f. *denticollis* Wain., Ambajesus Lake, on ground—fertile.

22. *Cladonia turgida* (Ehrh.) Hoffm., West Branch, on ground—fertile.

23. *Cladonia gracilis* (L.) Willd., Mt. Katahdin (4,000 ft.), on ground—fertile.

[*Cladonia verticillata* Fr. recorded by Blake.]

24. *Cladonia pyxidata* f. *lepidophora* Flk., Ambajesus Lake, on rock—fertile.

GROUP: *Substratosae*

FAMILY: *Pseudophysciaceae*.

25. *Pseudophyscia speciosa* (Wulf.) Mull. Arg., Ambajesus Lake, on bark—sterile.

26. *Pseudophyscia aquila* (Ach.) Hue., Ambajejus Lake, on trees—fertile.

GROUP: *Stratosae*

FAMILY: *Physiaceae*

27. *Pyxine sorediata* (Ach.) Fr., Kidney Pond, on bark and wood—sterile.

FAMILY: *Buellieaceae*

28. *Buellia parasema* (Ach.) Th. Fr., West Branch, on bark—fertile.

FAMILY: *Parmeliaceae*

29. *Parmeliopsis ambigua* (Ach.) Nyl., Ambajejus Lake, on wood—sterile.

30. *Parmeliopsis aleurites* (Ach.) Nyl., West Branch, on wood—sterile.

31. ***Parmelia furfuracea*** var. ***Cladonia*** (Tuck.) comb. nov., Mt. Katahdin (3,500 ft.), on spruce twigs—sterile (See Willey, Bull. Torr. Bot. Club 9: 152. 1882).

32. *Parmelia physodes* (L.) Ach., Kidney Pond, fertile—on bark.

33. *Parmelia pertusa* (Schränk.) Schaer., Ambajejus Lake, sterile—on bark.

34. *Parmelia conspersa* (Ehrh.) Ach., West Branch, fertile—on rock.

35. *Parmelia centrifuga* (L.) Ach., Mt. Katahdin (4,000 ft.), on ledges—fertile. Also recorded by Blake.

[*Parmelia olivacea* (L.) Ach., and variety *sorediata* Nyl. recorded by Blake.]

36. *Parmelia Borreri* var. *rudecta* Tuck., West Branch, fertile—on trees.

37. *Parmelia saxatilis* var. *sulcata* (Tayl.) Nyl., West Branch, on trees—sterile.

38. *Parmelia perlata* Ach., West Branch, on trees—sterile.

39. *Platysma oakesianum* (Tuck.) Nyl., Ambajejus Lake, on moss—sterile.

40. *Platysma glaucum* (L.) Nyl., Mt. Katahdin (3,000 ft.) and Kidney Pond, sterile—on trees.

41. *Platysma lacunosum* var. *atlanticum* (Tuck.) Nyl., West Branch, fertile—on twigs, also recorded by Blake under the synonym *Cetraria lacunosa* (L.) Ach.

42. *Platysma hepaticum* (Ach.) Wain. = *Platysma fahlunense* (Hoffm.) Nyl.—Mt. Katahdin (5,000 ft.) on rock—sterile. Also recorded by Blake.

43. *Nephromopsis ciliaris* (Ach.) Hue, West Branch and Kidney Pond, on birch—fertile.

FAMILY: *Lecanoraceae*

44. *Lecanora pallescens* (L.) Schaer., Ambajejus Lake, on bark—fertile.

45. *Lecanora rubina* (Vill.) Wain., Mt. Katahdin (4,000 ft.), on ledges—fertile.

46. *Lecanora subfusca* var. *argentata* Ach., Ambajejus Lake, on bark—fertile.

FAMILY: *Peltigeraceae*

47. *Peltigera polydactyla* (Neck.) Hoffm., Mt. Katahdin (3,000 ft.), on ground—fertile,—also recorded by Blake.

48. *Peltigera scutata* (Dicks.) Leight., Ambajejus Lake, on ground—fertile,

49. *Nephroma laevigatum* Ach., Ambajejus Lake, on wood—fertile.

50. *Nephroma helveticum* Ach., Ambajejus Lake, on tree—fertile.

FAMILY: *Stictaceae*

51. *Lobaria amplissima* (Scop.) Arn., West Branch, on trees—fertile.

52. *Lobaria pulmonaria* (L.) Hoffm., Ambajejus Lake, on trees—fertile.

FAMILY: *Gyrophoraceae*

53. *Gyrophora Dillenii* (Tuck.) Mull. Arg., West Branch, on rocks—sterile.

54. *Gyrophora Muhlenbergii* (Ach.) Schneid., West Branch, on rock—fertile.

55. *Gyrophora proboscidea* (L.) Ach., Mt. Katahdin (5,000 ft.), on ledges—fertile,—also recorded by Blake.

56. *Gyrophora hyperborea* (Hoffm.) Mudd, Mt. Katahdin (5,000 ft.), on ledges—fertile,—also recorded by Blake.

[*Gyrophora erosa* (Web.) Ach., recorded by Blake.]

57. *Umbilicaria pustulata* (L.) Hoffm., Mt. Katahdin (4,000 ft.), on ledges—fertile.

58. *Umbilicaria pustulata* var. *papulosa* Tuck., West Branch, on rocks—fertile; Kidney Pond, on log—sterile. [See Plate III, fig. 1.]

FAMILY: *Lecideaceae*

59. *Lecidea fusca* (Schaer.) Th. Fr., Ambajejus Lake, on moss—fertile.

60. (?) *Lecidea polycarpa* Fr., Mt. Katahdin (5,000 ft.), on rocks—fertile.

[*Lecidea contigua* Fr., recorded by Blake.]

[*Biatora sanguino-atra* (Fr.) Tuck., recorded by Blake.]

61. *Catillaria Laureri* Hepp, Ambajejus Lake, on bark—fertile.

62. *Rhizocarpon geographicum* (L.) DC., Mt. Katahdin (5,000 ft.), on rocks—fertile.

SUB-ORDER: **Coniocarpineae**

FAMILY: *Sphaerophoraceae*

[*Sphaerophorus fragilis* Pers., recorded by Blake.]

THOREAU MUSEUM OF NATURAL HISTORY, CONCORD, MASSACHUSETTS.

BRACHYMENIUM MACROCARPUM CARD. IN FLORIDA AND FUNA - RIA RUBIGINOSA, Sp. Nov.

R. S. WILLIAMS

The genus *Brachymenium* of the *Bryeae* is mostly tropical or subtropical; several species are known from Mexico and quite a number are common in tropical South America. The single collection, so far as known, from this country seems to have been made by Chapman some fifty years ago at Quincy, in the north-western part of Florida, and has remained unnoticed under an incorrect name